IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

TAKEUCHI et al.

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Group Art Unit: Unassigned

Application No. Unassigned

Examiner: Unassigned

Filed: February 2, 2004

For: METHOD

METHOD FOR EVALUATING PIEZOELECTRIC FIELDS

INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date

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	of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.				
	after (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes <i>one</i> of:				
	the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).				
	or the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).				
	after the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).				
	after the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and within thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below). NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.				
Copie	s of the References				
	Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3).				
□ ·	A copy of the foreign search report is enclosed herewith.				
	The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:				

	U.S. APPLIC	CATIONS	Status (check one)			
	.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
1.	:		ļ			
2.						
3.					1	
State	ment under 37 CFR	1.97(e)				
	Information Disclo	hereby states that each sure Statement was finction in a counterpart foreing the Information	rst cited in a gn patent appl	ny commun ication not i	ication from a	
	Information Disclosoffice in a counte undersigned after n Information Disclosoffice.	hereby states that no sure Statement was cited rpart foreign patent ap naking reasonable inquir osure Statement was love than three months ont.	l in a communiculing the communicular in a commu	cation from to the known formation of individual	a foreign patent owledge of the contained in the designated in	
State	ment under 37 CFR	1.704(d)				
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.					
Fees						
	No fee is owed by the IDS Fee of \$18	he applicant(s). 30 under 37 CFR 1.17(p)	is enclosed he	erewith.		
Meth	od of Payment of Fe	es				
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Instructions as to Overpayment

Credit Account No. 12-1216.
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Respectfully submitted,

Jeffrey A. Wyand Reg No. 29,4 LEYDIG, VOIT & MAYER

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Date: Wowayz 204 JAW:kas

IDS (Revised 8/26/03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary) Sheet

Complete if Known				
Application Number	Unassigned			
Filing Date	February 2, 2004			
First Named Inventor	Hideo TAKEUCHI			
Group Art Unit	Unassigned			
Examiner Name	Unassigned			
Attorney Docket Number	402961/AOYAMA			

			U	S. PATENT DOCUMENTS		
		U.S. Patent Document				
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
	A 1	5,255,071		Pollak et al.	10/19/1993	7,45,1010
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,		F	oreign Patent Documer	t			Trans	slation
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+
	A 2	JP	3-175340		POLLAK FRED H; SHEN HONG- EN	7/30/1991		X+

	r	OTHER - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item		lation
		(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
	A 3	SHEN et al., "Franz-Keldysh Oscillations In Modulation Spectroscopy," American Institute of Physics, J. Appl. Phys., August 15, 1995, pp. 2151-2175, Vol. 78(4)		
	A 4	WEISBUCH et al., "Quantum Semiconductor Structures: Fundamentals and Applications," Academic Press, 1991, pp. 18-23		
	A 5	LIU et al., "Intersubband Transitions in Quantum Wells: Physics and Device Applications I," Academic Press, 2000, pp. 4-19, Vol. 62		-
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Examiner Signature	Date Considered

A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).